

PAVLOVA, N. A.

USSR/ Medicine - Biochemistry

Card 1/1 Pub. 22 - 36/51

Authors : Kardashev, S. R., and Pavlova, N. A.

Title : Reamination of purine compounds with glyoxylic and glycolic acids

Periodical : Dok. AN SSSR 101/1, 135-136, Mar 1, 1955

Abstract : The biosynthesis of glycocoll obtained from glyoxylic and glycolic acids and aminopurine derivatives was investigated to determine whether and what role purine compounds play in the reamination reaction in the animal organism. The experiments were carried out on white rats and the results obtained are tabulated. Seven references: 2 USSR and 5 USA (1945-1954). Table.

Institution : The First Medical Institute, Moscow

Presented by : Academician A. D. Speranskiy. July 19, 1954

PAVLOVA, N. A.

PAVLOVA, N. A. "The Synthesis of Glycine from Glyoxylic Acid in the Animal Organism." First Moscow Order of Lenin Medical Institute I. M. Sechenov. Moscow, 1956. (Dissertation for the Degree of Candidate of Biological Science)

So: Knizhaya Letopis', No. 17, 1956

MARDASHEV, Sergey Rufovich; POKROVSKIY, Aleksey Alekseyevich; PAVLOVA,
Nina Aleksandrovna; KAPYSHEVA, V.S., red.; YEZHOVA, L.L.,
tekhn. red.

[Laboratory demonstrations for lectures on biological chemistry;
manual for teachers] Demonstratsii k leksiim po biologicheskoi
khimii; posobie dlia prepodavatelei. Moskva, Gos.izd-vo "Vysshiaia
shkola," 1961. 142 p. (MIRA 14:12)
(Biochemistry--Study and teaching)

PAVLOVA, N.A. (Moskva)

Obtaining the somatotropic hormone of man and monkeys and
some of its properties. Probl.endok. i gorm. no.2:17-21'63.
(MIRA 16:7)

1. Iz biokhimicheskogo otdela (zav. - doktor biolog.nauk Ye.A.
Kolli) Vsesoyuznogo instituta eksperimental'noy endokrinologii
(direktor - prof. Ye.A.Vasyukova).
(SOMATOTROPIN)

ALEKSEYEV, P.A., kand.tekhn.nauk; NIKITIN, V.A., kand.sel'skokhoz.nauk;
ROSSOVSKIY, L.S., inzh.; Prinsipali uchastiye: KHOLOPOVA, A.A.;
VYSOTSKAYA, Q.M., starshiy nauchnyy sotrudnik; LEBEDEV, M.B.,
starshiy nauchnyy sotrudnik; ZHAROVA, K.F., tekhnik;
PAVLOVA, N.A., tekhnik

Experimental rail transportation of apricots and grapes.
Khol.tekh. 39, no.6:46-50 N-D '62. (MIRA 15:12)
(Refrigerator cars) (Fruit--Transportation)

GLEBOVSKIY, V.D.; PAVLOVA, N.A.

Reflexes of the diaphragm in adequate stimulation of pulmonary and respiratory muscle receptors. Fiziol.zhur. 48 no.12:1444-1453 D
1962. (MIRA 16:2)

1. From the Department of Physiology Pediatric Medical Institute,
Leningrad.

(DIAPHRAGM—INNERVATION) (RESPIRATION)

FINKEL', M.Ya.; prinimali uchastiye; SHEVCHENKO, A.I.; KAUFMAN, A.S.,
[deceased]; STEPANENKO, V.S.; FEDOROV, N.I.; PAVLOVA, N.P.;
AYZENBERG, L.G.; FAYNGOL'D, S.G.; LITVINOVA, K.I.; VASLYAYEV,
G.P.; STETSSENKO, Ye.Ya.; LITVINOVA, O.Yu.; USTINOVA, A.G.

Improvement of the saturation process in the production
of ammonium sulfate. Koks i khim. no.7:43-46 '60.
(MIRA 13:7)

1. Ukrainskiy uglekhimicheskiy institut (for Finkel').
2. Yasinovskiy koksokhimicheskiy zavod (for Vaslyayev).
3. Giprokoks (for Ustinova).
(Ammonium sulfate)

PAVLOVA, N.F.; DEGTYAREV, K.A.; NOVIKOVA, N.G.

Testing of coke produced in high-capacity ovens. Koks i khim. no.11:
25-28 '63. (MIRA 16:12)

1. Yasinovskiy koksokhimicheskiy zavod.

L 06574-67 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AP6029815

SOURCE CODE: UR/0363/66/002/008/1416,1428

AUTHOR: Abrikosov, N. Kh.; Skudnova, Ye. V.; Poretskaya, L. V.; Pavlova, N. G.

ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii)

TITLE: Investigation of the quaternary system In-Sb-Cd-Sn in order to determine the phase equilibria at the InSb-CdSnSb₂ cross section

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 8, 1966, 1416-1428

TOPIC TAGS: phase diagram, phase structure, phase equilibrium, phase analysis, indium, antimony, cadmium

ABSTRACT: The object of the study was to determine the phase equilibria at the cross section of the In-Sb-Cd-Sn system which involves InSb and an alloy composed of 50 mol % CdSb and 50 mol % SnSb. The composition of this alloy corresponds to CdSnSb₂, a non-existent compound. The samples for the study were prepared by fusing mixtures of pure components in evacuated quartz ampoules at 700-800°C. Depending on specific composition, the alloy samples were homogenized by holding for at least 2000 hrs at 450, 400, 320, or 300°C. The phase diagrams are presented for all binary and ternary systems included in the In-Sb-Cd-Sn system. The results of the microstructure analysis and microhardness for all systems investigated are tabulated. The InSb-(CdSnSb₂) and the CdSb-SnSb cross sections were found to be non-quasibinary. The CdSb-SnSb alloy was found

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UDC: 546.682+546.86+546.811+546.48

Card 2/2

NOZHKIN, M.I.; VLASOV, I.N.; PAVLOVA, N.I.

In the Scientific and Technical Council of the All-Union Farm
Machinery Association. Mekh. i elek. sots. sel'khoz. 20 no.1:
62-63 '62. (MIRA 15:2)

(Agricultural machinery)

PAVLOVA, N.I.; LIVENSON, A.R.

Electron paramagnetic resonance spectra of the human blood
under normal conditions and in leucoses. Biofizika 10 no.1:
169-171 '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskogo
instrumenta i oborudovaniya, Moskva.

ROMANKOVA, M.F.; PAVLOVA, N.M.

Clinical aspects and diagnosis of disorders of the patency of the great cervical vessels; a review of Soviet and foreign literature. Khirurgiia 40 no.11:133-138 N '65. (MIRA 18:7)

1. Fakul'tetskaya khirurgicheskaya klinika (zav. - prof. V.I. Kolesov) i Leningradskogo meditsinskogo instituta imeni Pavlova.

ZAREMBO, K.S.; PAVLOVA, N.M.

Basic characteristics of the temperature conditions in gas
pipelines. Trudy VNIIGAZ no.21/29:78-86 '64.

(MIRA 17:9)

B. LATSENO, D.N.; PAVLOVA, N.M.

Diagnostic errors in anemic forms of cancer of the large intestine.
Vop.onk. 7 no.11:50-55 '61. (MIRA 15:5)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. V.I. Kolesov)
1-go Leningradskogo meditsinskogo instituta im. akad. I.P. Pavlova.
(INTESTINES--CANCER)

PAVLOVA, N.M., doktor biolog.nauk

The bud mite Cecidophyes ribis on currants. Zashch. rast. ot vred.
1 bol. 9 no.3:20-21 '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut rasteniyevodstva.

KOLESOV, V.I. (Leningrad P-46, ul. Kuybysheva, d.3, kv.5); TATARSKIY, N.E.
PAVLOVA, N.M.

Use of objective apnoea tests in detecting respiratory insufficiency in congenital and acquired heart defects. Grud.khir.
5 no.2:54-60 Mr-Ap'63 (MIRA 17:2)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. V.I.Kolesov) i Leningradskogo meditsinskogo instituta imeni akademika I.P.Pavlova.

ZAREMBO, K.S.; PAVLOVA, N.M.; TUMANOVA, A.A.

General data of using gas pipelines placed at reduced depth.

Trudy VNIIGAZ no.13:160-168 '61.

(MIRA 14:12)

(Gas, Natural--Pipelines)

ZHURAVLEV, M.S., kand. sel'khoz. nauk; KOVALEV, N.V., kand. sel'khoz. nauk; MONAKHOV, G.V.; MUKHAMEDOV, G.K.; TATAUROVA, A.S.; TUZ, A.S.; TUFITSYN, D.I.; FROLOV, A.I.; VYSOTSKIY, K.A., kand. sel'khoz. nauk, red.; PAVLOVA, N.M., doktor biol. nauk, red.; KUL'TISOV, N.V., kand. sel'khoz. nauk, red.; PYLAEVA, L.N., red.; SOROKINA, Z.I., tekhn. red.

[Catalog of the prospective varieties of fruit, berry, and grape crops in the collection of the Central Asia Experiment Station of the All-Union Institute of Plant Culture] Katalog perspektivnykh sortov plodovoiagodnykh kul'tur i vinograda v kollektzii Sredneaziatskoi opytnoi stantsii. Tashkent, Vses. nauchno-issl. in-t rastenievodstva, 1961. 123 p. (MIRA 16:12)

1. Sredneaziatskaya opytnaya stantsiya.
(Soviet Central Asia--Fruit--Varieties)

BOOS, E.G.; TAKIBAYEV, Zh.S.; BOTVIN, V.A.; CHASNIKOV, I.Ya.; PAVLOVA, N.P.

Analysis of P-nucleon interactions generated at an energy of $E = 10^{10}$
ev. in a nuclear photoemulsion. Trudy Inst. iad. fiz. AN Kazakh.
SSR 5:16-32 '62. (MIRA 15:4)
(Nuclear reactions) (Photography, Particle track)

BOTVIN, V.A.; TAKIBAYEV, Zh.S.; CHASNIKOV, I.Ya.; BOOS, E.G.; PAVLOVA, N.P.

Study of some inelastic p - n-interactions at an energy of 9
Bev. Trudy Inst. iad. fiz. AN Kazakh. SSR 5:3-15 '62.

(MIRA 15:4)

(Nuclear reactions) (Mesons)

S/056/62/042/001/001/04²
B125/B108

AUTHORS:

Boos, E. G., Botvin, V. A., Pavlova, N. P., Takibayev, Zh. S.,
Chasnikov, I. Ya.

TITLE:

Analysis of 9-Bev proton-nucleon interaction in a nuclear
emulsion

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42
no. 1, 1962, 3 - 11

TEXT: A constant distribution of transverse momenta is assumed for the
suggested method of studying the dependence of angular and energy character-
istics of proton-nucleon interaction on multiplicity. All showers observed
in a p (R) type HMKΦW (NIKFI) emulsion irradiated with 9-Bev protons from
the proton synchrotron of the OIYaI were classified according to their
multiplicity. The transverse momenta of the secondary particles are con-
stant over a wide range of primary particle energies and depend only
slightly on multiplicity and target mass. The experimental distribution of
 $p_{\perp}$ is satisfactorily approximated by $\Delta N / N \Delta p_{\perp} = c p_{\perp} \exp(-p_{\perp}^2 / b^2)$ (1). Owing
Card 1/

S/056/62/042/001/001/048
B125/B108

Analysis of 9-Bev proton-nucleon...

to the law of conservation of momentum, the mean value of $p_{\perp}$ increases with increasing θ in the case of small angles. Results of this method show better agreement with the experiment than earlier methods. The angular distribution of shower particles becomes more isotropic (in the c.m.s) with increasing multiplicity. The particle emission of the 3 and 8-pronged stars forward and backward is not symmetric. The best agreement with the expected Lorentz factor ($\gamma_c = 2.4$) is attained for mean multiplicities ($3 < n_s < 8$).

The Lorentz factor tends to a decrease with increasing multiplicity. The portion of energy imparted to charged mesons increases with multiplicity in both the laboratory and center-of-mass systems. Hence, $n(\pi^0)/n(\pi^{\pm}) < 0.5$ for 7 or 8-pronged stars with equal energy spectra of π^0 and $\pi^{\pm}$ mesons. The estimable mass of the target particles increases with multiplicity, but does not exceed the nucleon mass estimated by N. G. Birger and Yu. A. Smorodin (ZhETF, 36, 1159, 1959). This justifies the criteria of selecting nucleon-nucleon interactions. The coworkers of the OIYAI are thanked for discussions, I. M. Gramenitskiy and M. I. Podgoretskiy for supplying their preprint on the angular distribution of particles in 8-pronged stars. There are 7 figures, 1 table, and 15 references: 11 Soviet and 4 non-Soviet.

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Analysis of 9-Bev proton-nucleon...

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B125/B108

Table. Observed events.

Legend: (1) Type of star, (2) number of prongs, (3) data obtained at the Laboratoriya vysokikh energiy Instituta yadernoy fiziki Akademii nauk Kazakhskoy SSR (Laboratory of High Energies of the Institute of Nuclear Physics of the Academy of Sciences Kazakhskaya SSR) and at the Laboratoriya vysokikh energiy Ob'yedinennogo instituta yadernykh issledovaniy (Laboratory of High Energies of the Joint Institute of Nuclear Research).

Table

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Тип звезды	N	$\theta_{1/2}$	θ_r	$A(\beta_c/\beta' = 1)$	A	$\frac{K^2}{n_s - 1.25}$	$\frac{m_s}{\mu_n}$
3-лучевые	110	$11^{\circ}07' \pm 2^{\circ}02'$	$13^{\circ}16'$	$+0.38 \pm 0.08$	$+0.04 \pm 0.08$	0.21	≥ 1.6
4-лучевые	53	$15^{\circ}30' \pm 3^{\circ}20'$	$16^{\circ}29'$	$+0.28 \pm 0.08$	-0.08 ± 0.10	0.18	≥ 1.9
5-лучевые	19	$16^{\circ} \pm 3^{\circ}12'$	$17^{\circ}02'$	$+0.24 \pm 0.14$	-0.04 ± 0.14	0.13	≥ 3.0
6-лучевые	23	$18^{\circ}38' \pm 2^{\circ}$	$17^{\circ}07'$	$+0.24 \pm 0.12$	-0.18 ± 0.12	0.17	≥ 6.0
7-лучевые	6	$18^{\circ}24' \pm 3^{\circ}$	$18^{\circ}15'$	-0.04 ± 0.22	-0.20 ± 0.22	0.16	≥ 5.8
8-лучевые	7	$27^{\circ}24' \pm 3^{\circ}36'$	25°	-0.20 ± 0.17	-0.38 ± 0.17	0.16	≥ 0.2
8-лучевые*	13	$28^{\circ} \pm 3^{\circ}30'$	$28^{\circ}27'$	-0.12 ± 0.07	-0.30 ± 0.07	0.17	≥ 5.6

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PROCESSES AND PROPERTIES INDEX

Investigation of the properties of solar oil. Ya. B. Chertkov and N. F. Pavlov. *Chem. (U.S.S.R.)* 1938, No. 237-238; *Khim. Referat. Zhur.* 1, No. 11-12, 150.—From observation of the corroding action of the absorption solar oil, and the sepn. of the residue it was detd. that it is necessary to have different settling tanks immediately after the heat exchangers, and before the benzene scrubbers. This ensures a systematic removal of the residue, and also a longer life to the scrubbers. Expts. with the soln. of the residue in hot toluene showed that the percentage dissolved is inversely proportional to the content of the residual oil, and is least at highest temp. This supports the opinion that polymerization takes place in the oil at high temp. The polymerized particles settle down, thus increasing the percentage of sol. substances in the residual oil. W. R. Henn

ASAC 15.6 METALLURGICAL LITERATURE CLASSIFICATION

RUSAKOV, G.K., nauchnyy sotrudnik; MILYAVSKIY, I.O., nauchnyy sotrudnik;
ARINA, A.Ye., nauchnyy sotrudnik; PANKOVA, K.I., nauchnyy sotrudnik;
KHABAROV, N.F., nauchnyy sotrudnik. Prinimali uchastiye: PAVLOVA,
N.G.; VIATCHININA, V.G.; VARPOLOMEYEVA, M.M. TIKHONOVA, Ye.M., red.;
GUREVICH, M.M., tekhn.red.; DRYEVA, V.M., tekhn.red.

[Economic accountability on collective farms; regulations and
methods of introduction] Vnutrikhoziaistvennyi raschet v kolkhozakh;
primernoe polozhenie i metodika vnedreniya. Moskva, Gos.izd-vo
sel'khoz.lit-ry, 1960. 71 p. (MIRA 14:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki
sel'skogo khozyaystva. 2. Vsesoyuznyy nauchno-issledovatel'skiy
institut ekonomiki sel'skogo khozyaystva (for Rusakov, Milyavskiy,
Arina, Pankova, Khabarov).

(Collective farms--Accounting)

PAVLOVA, N. M.

PAVLOVA, N. M. -- "On Oxidative Processes in Cancer of the Stomach." * (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min Public Health USSR, First Leningrad Medical Institute Academician I. I. Pavlov, Leningrad, 1955.

SO: Knizhnaya Letopis' No. 31, 30 July 1955

*For the Degree of Candidate in Medical Sciences.

PAVLOVA, N. I.; KHRINKOVA, T. M.

Method of determining potassium from the natural radioactivity.
Zav. lab. 26 no. 11:1201-1202 '60. (MIRA 13:11)
(Potassium--Analysis) (Radioactivity)

STEPANOV, Pavel Alekseyevich; PAVLOVA, N.M.; KOROLEVA, N.I.; SERGEYEV, V.I.,
redaktor; PAVLOVA, M.M., tekhnicheskii redaktor; BALLOD, A.I.,
tekhnicheskii redaktor

[The collective farm orchard] Kolkhosnyi sad. Izd. 4-oe, ispr. 1 dop.
Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 268 p. (MLRA 9:12)
(Collective farms) (Fruit culture)

LAVRIK, P.I.: PAVLOVA, N.M.

Fruit and berry cultures in Kaliningrad Province. Trudy Bot.inst.
Ser.3:154-205 '56. (MIRA 9:6)
(Kaliningrad Province--Fruit culture)

PAVLOVA, N.N., assistant, kand.tekhn.nauk

Increasing the capacity of railroad water mains by using compressed
air cleaning. Trudy LIIZHT no.165:164-171 '59. (MIRA 13:6)
(Water pipes--Cleaning)
(Railroads--Water supply)

DAVIDOVA, M. N. --

"Landscape of the Eastern Steppes." Cand. Geog. Sci., Leningrad
State U, Leningrad 1954. (Izvestiya, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (19)

SO: Sum. No. 481, 5 May 55

PAVLOVA, N. N.

14815 (Mechanism of Boring in Hard Rock Types and New Types of Rotary BBS.) Mekhanizm razrusheniia tverdikh gornykh porod i novye tipy shiroshchennykh dolot. L. A. Shchegolev and N. N. Pavlova. Neftianoe Khozlstvo, v. 32, no. 4, Apr. 1954, pp. 8-15, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. Experimental data and formulas. Graphs, tables, 8 ref.

PAVLOVA, N. N.

Pavlova, N. N. -- "Influence of the Form of the Contact Surfaces on the Effectiveness of Processes of Breaking Up Solid Rocks in the Case of Boring with Milling-Cutter Bits." Acad Sci USSR, Inst of Petroleum, Moscow, 1955 (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

SHREYNER, Leonid Aleksandrovich; PETROVA, Ol'ga Pavlovna; YAKUSHEV, Vasilii Petrovich; PORTNOVA, Anna Timofeyevna; SADILENKO, Konstantin Mikhaylovich; KLOCHKO, Nikolay Aleksandrovich; PAVLOVA, Nina Nikolayevna; BALANDIN, Pavel Stepanovich; SPIVAK, Aleksandr Ivanovich; KOVALOVA, A.A., vedushchiy red.; POLOSINA, A.S., tekhn. red.

[Mechanical and abrasive properties of rock] Mekhanicheskie i abrazivnye svoystva gornykh porod. Pod obshchei red. L.A. Shreynera. Moskva, Gos. nauchno-tekhn. izd-vo nef. i gorno-toplivnoi lit-ry, 1958. 200 p. (MIRA 11:8)

(Rocks)

PAVLOVA, N N

14(5)

65

PHASE I BOOK EXPLOITATION

SOV/1393

Akademiya nauk SSSR. Institut nefti

Trudy, t. 11. Neftepromyslovoye delo (Transactions of the Petroleum Institute, Academy of Sciences, v. 11. Oil Field Industry) Moscow, Izd-vo AN SSSR, 1958. 346 p. 2,000 copies printed.

Resp. Ed.: Krylov, A.P., Ed. of Publishing House: Sevina, Z.A.;
Tech. Ed.: Kiseleva, A.A.

PURPOSE: This book is intended for geological engineers specializing in oil well drilling and oilfield operations.

COVERAGE: This book, a collection of 26 articles, describes the mineral composition of hard, friable, and plastic rocks, their deformation and destruction at various geological platforms of the Soviet Union; it further presents designs of rock bits with different cutters, which can be successfully used for crushing various formations. The effect of electric current on binding

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substances such as cement slurry, plaster and lime solutions, as well as their treatment with electric current carried out to accelerate hardening are also discussed. It is stated that electric current may be used for strengthening the walls of a well, and that this promising method has been successfully tested on various cores. Designs of electrodes used for this purpose are presented. Drilling of deep wells with conventional and sectional turbodrills is analyzed, and turbodrill parts described. Oil well drilling in eastern Soviet regions appears to be complicated by an excessive filtration of drilling fluid into formations of various horizons. To overcome this, methods improving the plugging properties of cement slurry are proposed. In this connection the adhesion of stone-like cement to rocks of different composition has been studied with the aid of various apparatus, and the filtration of drilling fluid into formations of Tatar Republic oilfields has been analyzed. Methods of eliminating the negative centrifugal force of presently used deep well pumps are proposed, as are new systems of pump jacks. The restoration of bottom-hole pressure in formations with

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varying permeability is investigated on the basis of theoretical calculations and graphs. Attempts to extract petroleum from the loose sands of the Romashkino oilfield by injecting water or certain petroleum products, free of paraffin and tar, are described and results of experiments given. The method of stimulating petroleum flow in various petroliferous provinces by injecting high pressure gas into a partially depleted formation is explained, and some recommendations given. The process of subterranean burning of a part of the petroleum deposit, as a thermal method of petroleum recovery, is discussed, and laboratory experiments illustrated by numerous graphs. Tectonics of soft, clayey rocks are investigated in connection with the problem of caving, and the results of experiments made to ascertain the effect of tension and moisture on the stability of such rocks are analyzed. The influence of pressure on the selective saturation of quartz rocks with water or petroleum, as well as on the saturation of porous rocks is investigated. Laboratory experiments were made in an attempt to find out the saturation rate of various minerals wetted with water after being treated

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with various solutions. Tests conducted in connection with the problem of equipment corrosion proved that DQ-Na solution is a good inhibitor against corrosion and that sulfide coating is a good protective agent for steel against corrosion. The procedure of turbine drilling under different conditions is analyzed and the advisability of lowering the upstream pressure of the drilling fluid is emphasized. The prevention of caving by applying various methods is discussed, and the application of a coefficient established on the basis of calculations is recommended. Hydraulic fracturing of formations and the treatment of oil wells with hydrochloric acid are also recommended as efficient methods for boosting crude oil production. The development of natural gas recovery in the Saratov and Stalingrad regions is outlined, and the advantage of the utilization of natural gas on a larger scale is emphasized. Bibliographic references accompany each article.

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1. Yakushev, V.P., L.A. Shreyner. Influence of Mineral Composition and Structure of Rocks on Their Hardness or Plasticity 3
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3. Shreyner, L.A., N.N. Pavlova. Experimental Data on Destruction of Formations Due to Fatigue 46
4. Titkov, N.I., A.S. Korzhuyev, N.S. Don. Problem of the Effect of Electric Current on Binding Substances 53
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6. Titkov, N.I., A.S. Korzhuyev, V.A. Nikishin, and
V.G. Smolyaninov. Application of Electric Current
for Strengthening the Core of Oil Wells 85
7. Titkov, N.I., G.A. Lyubimov, and I.D. Sferina. Study
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12. Gadiyev, S.G. Negative Centrifugal Force of Deep Well Pumps and Some Methods for Its Elimination 170
13. Zheltov, Yu.P. Restoration of Bottom-hole Pressure Under Conditions of Varying Permeability of Formations in the Bottom-hole Zone and Beyond the Oil Well 184
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15. Kapelyushnikov, M.A., S.L. Zaks and V.F. Burmistrova. Stimulation of Petroleum Flow by Injecting High Pressure Gas Into a Partially Depleted Formation 209
16. Sheynman, A.B., A.I. Sergeyev. Experimental Study of Burning in a Petroleum Saturated Sand Layer 228

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17. Baydyuk, B.V., L.A. Shreyner. Influence of Tension and Moisture on the Stability of Argillaceous Rocks of Oil Wells 240
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24. Borisov, P.A., P.V. Dergunov, Ye.Ya. Sirotina, O.V. Tkachenko. Economic Practicability of Contour Flooding in Petroliferous Provinces of the Ural-Volga Region 323
25. Borisov, P.A., I.I. Ryzhenkov. Economic Practicability of Intensifying Crude Oil Recovery by Hydraulic Fracturing of a Formation and Treatment of Oil Wells with Hydrochloric Acid 333
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- Card 9/10

KOVTUNENKO, P.I.; PAVLOVA, N.N.

Testing mechanical properties of rocks by the dynamic pressing-in
method. Izv.vys.ucheb.zav.; neft' i gaz. no.7:29-35 '58.
(MIRA 11:11)

1. Moskovskiy neftyanoy institut im. akad. I.M. Gubkina i institut
nefti AN SSSR.

(Rocks--Testing)

PAVLOVA, N.N.; SHREYNER, L.A.

Mechanism of rock destruction and problems in the design of
drills for hard, brittle, and plastic-brittle rocks. Study
Inst.nefti 11:18-45 '58. (MIRA 11:12)
(Rock drills)

SHERETNER, L.A.; PAVLOVA, N.H.

Experimental data on the fatigue break-down of rocks. Trudy
Inst.nefti 11:46-52 '58. (MIRA 11:12)
(Rocks--Testing)

PAYLOVA, Nina Nikolayevna; SHREYNER, Leonid Aleksandrovich;
LAVROV, M.I., ved. red.

[Breaking rock under dynamic loads] Razrushenie gorn-
nykh porod pri dinamicheskom nagruzhении. Moskva,
Nedra, 1964.. 158 p. (PLA 181.)

ACC NR: AM6026790

Monograph

UR/

Pavlova, Nina Nikolayevna; Shreyner, Leonid Aleksandrovich

Destruction of rocks during dynamic loading (Razrusheniye gornyykh porod pri dinamicheskom nagruzhenii) Moscow, Izd-vo "Nedra," 1964. 158 p. illus., biblio. 1550 copies printed.

TOPIC TAGS: geology, geologic exploration, mining engineering

PURPOSE AND COVERAGE: This book is intended for engineering-technical and scientific staff members of the oil and mining industry. The authors describe the results of the investigation of mechanical properties of rocks at various rates of deformation. They have established new patterns of behavior of rocks under dynamic load—changes in strength and plastic properties of rocks with increases in the rate of deformation. Particular attention was paid to the analysis of the processes of rock breakage in drilling. It is shown that changes in the strength and plastic properties of rocks with increasing rate of dynamic load affect the process of destruction of rocks in drilling.

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UUC : NONE

ACC NR: AM6026790

Brief review of investigations of mechanical properties of rocks at
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Methods for conducting the investigations -- 51
Results of experimental investigation of mechanical properties of rocks
under static and dynamic loads -- 78
Analysis of the results of investigation and the ways for their prac-
tical application -- 106

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SUB CODE: 08, 09/ SUBM DATE: 06Oct64/ ORIG REF: 110/ OTH REF: 034

Card 2/2

L 16026-66

EWI(m)

RM

ACC NR: AP5024143

SOURCE CODE: UR/0075/65/020/009/1016/1018

AUTHOR: Pavlova, N. N.; Sayapin, V. G.

50
B

ORG: Central Laboratory of Applied Geochemistry of the Geological-Geochemical Trust, Moscow (Tsentral'naya laboratoriya prikladnoi geokhimii Geologo-geokhimicheskogo tresta)

TITLE: Conditions of extraction of butylrhodamine G fluoroniobate

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 9, 1016-1018

TOPIC TAGS: qualitative analysis, photometry, tantalum, columbium

ABSTRACT: Simultaneous extraction of butylrhodamine G fluoroniobate was observed during the development of the extraction-photometric determination of tantalum, using butylrhodamine G as a solvent (N. I. Pavlova and I. A. Blyum. Zavodskaya laboratoriya, 28, 1305, 1962). This property of the dye was used in the development of the extraction-photometric determination of niobium. The

Card 1/3

UDC: 543.70

L 16026-66

ACC NR: AP5024145

optimal conditions of extraction were determined and the calibration curve was plotted for niobium determination under these conditions: H₂O 12 ml., benzene 20 ml., concentration of H₂SO₄ 10 N, that of fluoride 0.014 g./ml., and that of butylrhodamine C 0.04%. Fifteen ml. of extract were mixed with 10ml. of acetone to stabilize the color of the benzene extraction. The optical density was measured in the photocolormeter FEK-N-57 with the light filter No 6 (584 m) at a layer thickness of 5 cm. A comparison of the curves on dependence of the optical densities of extracts on the concentration of the dye in aqueous solution and on that of the fluorine ion in the solution, plotted during these experiments, with those obtained during tantalum determination, showed that the tantalum could be extracted satisfactorily at a considerably lower concentration of the dye. This difference could be used for the determination of niobium in the presence of tantalum, or for a simultaneous determination of tantalum and niobium from the same solution. For this purpose (1) the tantalum was extracted from one aliquot part of the same solution under conditions used for tantalum determination, i.e. at a lower concentration of dye, and (2) both elements were extracted from the other aliquot part under conditions for the extraction of niobium described above. The content of tantalum and niobium was then

Cont 2/3

L 16026-66

ACC NR: AP5024145

determined by comparing the results of measurements of density for the first and second case. Orig. art. has: 4 figures and 1 table.

SUB CODE: 07, 11 SUBM DATE: 22May64/ ORIG REF: 001

Card 3/3

BLYUM, I.A.; PAVLOVA, N.N.

Study of the systems metal - anion - basic dye - organic solvent.
Forms of a dye-reagent and their optical characteristics. Zhur.
anal. khim. 20 no.9:898-910 '65. (MIRA 18:9)

1. Tsentral'naya laboratoriya prikladnoy geokhimii, Moskva.

FAVLOVA, Nina Nikolayevna; BABKOV, I.I., otv. red.; YAVORSKAYA,
I.S., red.

[Physical geography of the Crimea; a textbook] Fizicheskaya
geografiya Kryma; uchebnoe posobie. Leningrad, Izd-vo Le-
ningr. univ., 1964. 104 p. (MIRA 17:7)

BLYUM, I.A.; PAVLOVA, N.N.

Extraction-photometric methods of analysis with the use of basic
dyes; a survey. Zav.lab. 29 no.12:1407-1418 63. (MIRA 17:1)

PAVLOVA, N.N., 'kand.tekhn.nauk

Coefficient of resistance in aerated water flow along horizontal pipes.
Sbor. trud. LIIZHT no.185:101-105 '62. (MIRA 17:1)

PAVLOVA, N.N., kand.tekhn.nauk; BELYAVSKIY, M.M., kand.tekhn.nauk

Principles of the theory and practice of flushing water pipes with
aerated water. Sbor. trud. LIIZHT no.185:72-100 '62. (MIRA 17:1)

PAVLOVA, N.N.

Survey of practices in the natural regionalization of Crimean
steppes. Uch. zap. LGU no.317:158-179 '62. (MIRA 16:6)
(Crimea--Physical geography)

KAZAKOVA, O.N.; PAVLOVA, N.N.; DASHKEVICH, Z.V.

Landform map of Vologda Province. Mat. Kom. po land. kart. no.1:
10-16 '61. (MIRA 16:10)

PAVLOVA, N.N.; BLYUM, I.A.

Extraction-photometric determination of tantalum with butyl-
rhodamine B and rhodamine 6G. Zav.lab. 28 no.11:1305-1311 '62.
(MIRA 15:11)

1. TSentral'naya laboratoriya geologorazvedochnogo tresta No.1.
(Tantalum—Analysis) (Rhodamine)

PAVLOVA, N.N., kand.tekhn.nauk

Study of the mechanical properties of rocks and regularities in
their deformation under dynamic pressure. Izv. vys. ucheb. zav.;
gor. zhur. 5 no.10:45-52 '62. (MIRA 15:11)

1. Institut geologii i razrabotki goryuchikh iskopayemykh AN SSSR.
(Rocks--Testing)

FUTILOVA, Iya Nikolayevna; Primalal uchastiye FUKS, G.I. PAVLOVA,
M.N., red.; GOROKHOVA, S.S., tekhn.red.

[Laboratory manual of colloid chemistry] Rukovodstvo k prakti-
cheskim zaniatiyam po kolloidnoi khimii (glavy 7-9 sost.G.I.Fuks).
Izd.4., perer. i dop. Moskva, Gos.isd-vo "Vysshaya shkola,"
1961. 341 p. (MIRA 15:5)

(Colloids)

LEVANT, Grigoriy Yefimovich; RAYTSYN, Genrikh Aleksandrovich; NIKOLAYEV,
L.A., prof., retsenezent; PUTILOVA, I.N., red.; PAVLOVA, N.N.,
red.; GRIGORCHUK, L.A., tekhn. red.

[Laboratory work in general chemistry] Praktikum po obshchei khi-
mi. Pod red. I.N. Putilovoi. Moskva, Gos. izd-vo "Vysshaya shkola,"
1961. 277 p. (MIRA 15:1)

(Chemistry--Laboratory manuals)

PAVLOVA, Eadeshta Nikolayevna, kand.tekhn.nauk; LEVCHENKO, Ya.V., inzh.,
red.; FREGER, D.P., red.isd-va; BELOGUROVA, I.A., tekhn.red.

[Increasing the capacity of water pipes by cleaning them with
water and compressed air] Opyt uvelichenia propusknoi
spesobnosti vodoprovodnykh trub gidrepnevmaticheskim sposebom.
Leningrad, 1961. 17 p. (Leningradskii Dom nauchno-tekhnicheskoi
propagandy. Obmen perevalovym opytom. Seriya: Stroitel'naya
promyshlennost', no.22) (MIRA 14:12)
(Water pipes) (Compressed air)

PAVLOVA, N.H.; SHUMYNER, L.A.

Effect of the rate of loading on the plasticity of marble in indentation tests. Dokl. AN SSSR 137 no.2:319-322 Apr '61. (MIRA 14:2)

1. Institut geologii i razrabotki goryuchikh iskopayemkh AN SSSR.
(Marble)

PAVLOVA, N.N.

Division of the Crimean Steppes by land forms. Vest. LGU 15
no.6:99-105 '60. (MIRA 13:3)
(Crimea--Physical geography)

KILMERN, S.S.; TUZOVA, L.S.; PAVLOVA, N.N.

Some data on the structure and age of the Devonian terrigenous
formation on the right bank of the Ufa River (Pokrovskiy District,
Bashkir A.S.S.R.). Uch. zap. Kaz. un. 117 no.9:301-303 '57.
(MIRA 13:1)

1. Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina.
Kafedra geologii nefiti i gaza.
(Pokrovskiy District (Bashkiria)--Geology, Stratigraphic))

BOOS, E.G.; BOTVIN, V.A.; PAVLOVA, N.P.; TAKIBAYEV, Zh.S.; CHASNIKOV, I.Ya.

Analysis of 9 Bev. proton-nucleon interactions in a nuclear
emulsion. Zhur.eksp.i teor.fiz. 42 no.1:3-11 Ja '62.
(MIRA 15:3)

1. Institut yadernoy fiziki AN Kazakhskoy SSR.
(Nuclear reactions)

39305
S/707/62/005/000/001/011
D290/D308

29.6.100

AUTHORS:

Botvin, V.A., Takibayev, Zh.S., Chasnikov, I.Ya.,
Bos, E.G. and Pavlova, N.P.

TITLE:

Analysis of some inelastic p-n-interactions at 9 Bev

SOURCE:

Akad iya nauk Kazakhskoy SSR. Institut yadernoy
fiziki Trudy. v. 5, Alma-Ata, 1962. Fizika chastits
vysokikh energii. Struktura yadra, 3-15

TEXT:

The authors studied in detail the characteristics of
the secondary particles from three-ray p-n-interactions produced by
9 Bev protons; the work was carried out because of appreciable dif-
ferences in the results for such reactions given in the literature.
Nuclear emulsions type НИКФИ-Р (NIKFI-R) were used. The aggregate
angular distribution of π -mesons and protons is symmetrical in the
center-of-mass system (CMS); the individual angular distribution for
 π -mesons and protons are asymmetric in CMS, protons predominating
in the back direction and π -mesons in the forward direction. The
energy spectrum of protons in CMS is harder than that predicted by

Card 1/2

BOOS, E.G.; PAVLOVA, N.P.; TAKIBAYEV, Zh.S.; TEMIRALIYEV, T.; TURSUNOV, R.A.

Interaction of 19.8 GeV./c protons with nucleons and emulsion
nuclei. Zhur. eksp. i teor. fiz. 47 no.6:2041-2050 D 164. (MIRA 18:2)

1. Institut yadernoy fiziki AN Kazakhskoy SSR.

24 6700

39306
S/707/62/005/000/002/014
D290/D308

AUTHORS: Boos, E.G., Takibayev, Zh.S., Botvin, V.A., Chasnikov, I.Ya. and Pavlova, N.P.

TITLE: Analysis of p-nucleon interactions produced at an energy of 1010 eV in nuclear photoemulsion

SOURCE: Akademiya nauk Kazakhskoy SSR. Institut yadernoy fiziki. Trudy. v. 5. Alma-Ata, 1962. Fizika chastits vysokikh energiy. Struktura yadra, 16-32

TEXT: The authors have developed a new method of finding the angular and energy characteristics of nuclear disintegrations that is based on the calculation of the distribution of transverse momentum of secondary particles; for all identifiable particles the method gives closer agreement with experiment than other methods of approximation. The method permits an estimate of the dependence of the following characteristics on observed multiplicity: a) the degree of anisotropy of the angular distribution of shower particles in the center-of-mass system (CMS) for a Lorentz-factor (γ_c) of 2.4 decreases with increasing multiplicity; for 3- and 8-ray stars

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D290/D308

Analysis of p-nucleon interactions ...

there is an appreciable asymmetry in forward and backward emission of particles, b) in the region of average multiplicity (between 3 and 8) the best agreement with the expected value $\gamma_c = 2.4$ is shown by a quantity found by a kinematic method which assumes a uniform distribution of the transverse momenta of shower particles; the assumption $\beta_c/\beta_i = 1$ (β_c is the velocity of the center-of-mass with respect to laboratory coordinates (LC), β_i is the velocity of the particles in CMS) leads to a systematic overestimate of the energy by a factor of two. Regardless of the method of estimation, γ_c for 3-ray stars is too high, while γ_c for 8-ray stars is too low; therefore the Lorentz-factor of the system where angular symmetry of the secondary particles is assumed, will decrease as the multiplicity increases, c) as the multiplicity increases both in LC and CMS, but the fraction of the energy per meson is almost unchanged (about 17%); therefore $n_{\pi^0}/n_{\pi^\pm} < 0.5$ for 7- and 8-ray stars provided that the energy spectra $n_{\pi^0}/n_{\pi^\pm}$ of π^0 and $\pi^\pm$ -mesons are identical. The mass of the target also increases with the multi-

Card 2/3

Analysis of p-nucleon interactions ... S/707/62/005/000/002/014
D290/D308

plicity, but it does not exceed the mass of nucleon; this confirms the criteria for the selection of n-n-interactions. The authors acknowledge the help of L.I. Mikhaylova and O.V. Gunenkova. There are 8 figures and 4 tables.

Card 3/3

BOOS, E.G.; PAVLOVA, N.P.; VOLKOVA, O.I.; GUNENKOVA, O.V.; ZAYTSEV, K.G.;
KHOLMETSKAYA, A.V.

Methodology of measuring ionization losses by relativistic
particles in a nuclear emulsion. Prib. i tekhn. eksp. 9 no.1:
76-81 Ja-F '64. (MIRA 17:4)

1. Institut yadernoy fiziki AN KazSSR.

ACCESSION NR: AP4018368

S/0120/64/000/001/0076/0081

AUTHOR: Boos, E. G.; Pavlova, N. P.; Volkova, O. I.; Gunenkova, O. V.;
Zaytsev, K. G.; Kholmetskaya, A. V.

TITLE: Methods of measuring ionization losses of relativistic particles in a
nuclear emulsion

SOURCE: Pribory* i tekhnika eksperimenta, no. 1, 1964, 76-81

TOPIC TAGS: ionization loss, relativistic particle, relativistic particle
ionization loss, nuclear emulsion, Ilford G-5 emulsion, emulsion development,
emulsion development irregularity

ABSTRACT: Irregularities of development of Ilford G-5 nuclear emulsion were
studied; methods of eliminating them are suggested. A stack of 40 G-5 films,
600-micron thick, 12x20 cm was irradiated (in CERN) by a 91.8-Gev/s-mean-
impulse proton beam. To find the irregularity of development of the emulsion
films, the density of blobs on the relativistic-particle tracks was investigated
both in the plane parallel to the emulsion and in depth. The effects of the micro-

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ACCESSION NR: AP4018368

scope field-of-view illumination, experimenters' characteristics, and the track immersion angle upon the accuracy of measurements were studied. It was proven that a desirable accuracy (2% or better) in determining ionization losses with immersion angles up to 10° is attainable. The technique of "joining" tracks in adjacent emulsion layers is discussed. "The authors wish to thank Zh. S. Takibayev and I. Ya. Chasnikov for a useful discussion of this project, and the workers of the High-Energy-Particle Laboratory, A. A. Alpy*sbayeva, Ts. Ya. Kagasova, D. I. Yermilova, F. N. Trushlyakov, T. T. Temiraliyev and G. A. Grigor'yeva, for their help in carrying out this project." Orig. art. has: 3 figures and 3 tables.

ASSOCIATION: Institut yadernoy fiziki AN KazSSR (Institute of Nuclear Physics, AN KazSSR)

SUBMITTED: 11Jan63

DATE ACQ: 18Mar64

ENCL: 00

SUB CODE: NS

NO REF SOV: 000

OTHER: 007

Cord 2/2

VINITSKIY, A.Kh.; GOLYAK, I.G.; PAVLOVA, N.P.; RUS'KIN, V.I.; TAKIBAYEV, Zh.S.

Inelastic γ -N-interactions at 7.5 Bev. Trudy Inst. iad. fiz.
AN Kazakh. SSR 6:144-159 '63. (MIRA 16:10)

TAKIBAYEV, Zh.S.; BOOS, E.G.; PAVLOVA, N.P.

Distribution of transverse pulses of particles in nucleon
interactions. Trudy Inst. rad. fiz. AN Kazakh. SSR 6:90-93 '69.
(MIRA 16:10)

PAVLOVA, N.P.

F.M.SHEMYAKIN, ZAVOD LAB,5, 1129-31, 1936

BOTVIN, V.A.; TAKIBAYEV, Zh.S.; CHASNIKOV, I.Ya.; PAVLOVA, N.P.; BOOS, E.G.

Study of three-pointed stars resulting from inelastic pn-
interactions in a nuclear emulsion at an energy of 9 Bev. Zhur.
eksp.i teor.fiz. 41 no.4:993-1002 0 '61. (MIRA 14:10)

1. Institut yadernoy fiziki AN Kazakhskoy SSR.
(Photography, Particle track) (Protons) (Neutrons)

PAVLOVA, N. P.

F. M. SCHIMJAKIN, Zavod Lab, 1936, 5, 1129-1131

L 22173-65 EWT(m) SSD/APWL/SSD(c)/DIAAP

ACCESSION NR: AP5001823

S/0056/64/047/006/2041/2050

AUTHORS: Boos, E. G.; Pavlova, N. P.; Takibayev, Zh. S.; Temiraliyev, T.; Tursunov, R. A.

TITLE: Investigation of the interaction of 19.8-GaV/c protons with nucleons in emulsion nuclei

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 6, 1964, 2041-2050

TOPIC TAGS: proton nucleon interaction, proton scattering, emulsion, proton proton interaction, proton neutron interaction

ABSTRACT: The investigation was made with a stack of 600 μ Ilford G-5 emulsions measuring 12 x 20 cm, irradiated in the CERN proton synchrotron. Scanning was along the tracks of the primary particles in an MBI-9 microscope with a magnification of 900x. The criteria used to select interactions in free and quasi-free nucleons

Card 1/3

L 22173-65

ACCESSION NR: AP5001823

are described. Altogether 7,960 events were detected in a total primary track length of 2,927 meters (corresponding to a mean free path 36.8 ± 0.4 cm). From these, 1,035 elastic p-N interactions were selected. The distribution of the p-p events with respect to the number of prongs is in agreement with hydrogen bubble chamber data. The mean number of charged secondary particles from p-p and p-n interactions are 4.3 ± 0.2 and 4.5 ± 0.2 , respectively. Showers with asymmetric emission of charged particles in the c.m.s. were also investigated. The distribution of the asymmetry of the individual interactions can be explained by assuming that the shower particles are deflected from symmetric emission in random fashion. The dependence of the multiplicity on the type of target nucleus is analyzed, and the experimental data are compared with the predictions of various theoretical mechanisms for the interaction between the nucleons and nuclei. It is shown that the best agreement is obtained with the cascade model calculations performed at OIYAI. "The authors thank the members of the High Energy Labora-

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L 22173-65

ACCESSION NR: AP5001823

5
tory of IYAF AN KazSSR, M. G. Antonova, O. V. Guvenkova, L. Ya. Kogasova and V. L. Pervuchina for experimental data reduction, and the emulsion committee of CERN for supplying the pellicle stack." Orig. art. has: 3 figures, 4 formulas, and 9 tables.

ASSOCIATION: Institut yadernoy fiziki Akademii nauk Kazakhskoy SSR (Institute of Nuclear Physics, Academy of Sciences Kazakh SSR)

SUBMITTED: 04May64

ENCL: 00

SUB CODE: NP

NR REF SOV: 012

OTHER: 014

Card 3/3

L 22105-66 EWT(m)/T

ACC NR: AP6012937

SOURCE CODE: UR/0120/65/000/002/0063/0064

AUTHOR: Boos, E. G.; Pavlova, N. P.; Takibayev, Zh. S.; Tursumov, R. A. ²⁷₂₁₆

ORG: Institute of Nuclear Physics, AN KazSSR (Institut yadernoy fiziki AN KazSSR) ³

TITLE: Determination of the nature of secondary particles by the photo-emulsion method in the area of high energies

SOURCE: Priory i tekhnika eksperimenta, no. 2, 1965, 63-64

TOPIC TAGS: pi meson, proton, K meson, meson, high energy particle

ABSTRACT: In order to determine the nature of secondary particles in the area of high energies, the author analyzed secondary particles from three-ray p-n interactions formed by protons with an impulse of 19.8 gev. The traces of the incident protons provided independent confirmation of the correctness of the method used for identification of the secondary particles. The relations between the number of p-n mesons, pi mesons, K-mesons, and protons in various areas of p c were found: $2.5 < p/c < 5 \text{ gev} - N_{\pi} : (N_K + N_p) = 90:10$; $5 \text{ gev} < p/c < 20 \text{ gev} -- N_{\pi} : N_K : N_p = 47:10:43$.

It is shown that the pi-mesons can be separated from the heavier particles in the area of p/c between 2.5 and 5 gev and that in the area between 5 and 20 gev the portion of K-mesons can also be evaluated. The number of particles of various types is evaluated as follows for three-ray p-n interactions on the basis of preliminary data:

Cord 1/2

UDC: 539.1.073.7

L 22105-66

ACC NR: AP6012937

2.5 gev $\leq p \leq 5$ gev $N_{\pi}:(N_K+N_p) = 90:10$

5 gev $\leq p \leq 20$ gev $N_{\pi}:N_K:N_p = 47:10:43$

2.5 gev $\leq p \leq 20$ gev $N_{\pi}:N_K:N_p = 62:6:32$

These relations indicate the considerable reduction of pi-mesons with increasing energy and the corresponding increase in K-mesons and protons. The authors thank the workers of the Department of High energy, IYAF, AN KazSSR, for participating in processing and discussing the experiments. Further thanks is made to the Emulsion Committee, TsYERN for making the emulsion stacks available. Orig. art. has: 2 figures. [JPRS]

SUB CODE: 20 / SUBM DATE: 17Feb64 / ORIG REF: 006 / OTH REF: 001

Cord 2/2 BLG

PAVLOVA, N.R.

Characteristics of the distribution and feeding habits of the bank swallow
in Oka Preserve. Ornitologiya no.4:122-131 '62. (MIRA 16:4)
(Oka Preserve—Swallows)

YAROSHENKO, P.D.; PAVLOVA, N.S.

Interrelationships between wild-growing and added sown grasses in
meadows of the Lefinka Station, Maritime Territory. Bot. zhur. 46
no.10:1517-1532 0 '61. (MIRA 14:9)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR i
Dal'nevostochnyy gosudarstvennyy universitet.
(Ivanovka District (Maritime Territory)--Pasture research)

PAVLOVA, N.S.

U-4

USSR/ General Problems of Pathology. Tumors

Abs Jour : Ref Zhur - Biol., No 5, 1958, 23063

Author : Bolotova, N.Ye., Pavlova, N.S.

Inst : -

Title : On Fibrosarcomas in Cattle.

Orig Pub : Tr. Ulyanovskogo, S-kh. in-ta, 1956, 4, 355-357

Abstract : A fibrosarcoma in the cow is described. The tumor, measuring 17 x 8.5 cm., was protruding from a wall of the rumen.

Card 1/1

USSR / Diseases of Farm Animals. Diseases Caused by Protozoa R

Abs Jour: Ref Zhur-Biologiya, No 15, 1958, 74215

Author : Pavlova, N. V.

Inst : All-Union Institute of Experimental Veterinary Medicine

Title : Study of the Epizootology of Nuttallia Equi in the Central Zone of European USSR

Orig Pub: Tr. Vses. in-ta eksperim. veterinarii, 1957, 21, 199-209

Abstract: No abstract.

Card 1/1

PAVLOVA, N. Ya.

"The Combined Action of Adrenalin and Diuretin on the
Peripheral Vessels," Farmakol. i Toksikol., 4, Nos. 4-5,
1941. Chair Pharmacology, 1st Med. Inst., Moscow, -1941-.

PAVLOVA, N. YA.

CAND MED SCI

Dessertation: "Combined Effect of Nicotinic Acid and Adrenaline on Blood Circulation."

21 Mar 49

First Moscow Order Of Lenin Medical Inst.

SO Vecheryaya Moskva
Sum 71

PAVLOVA, N.Ya. (Moscow); SAMOYLOVA, Z.T. (Moscow); GORBOVITSKIY, Ye.B. (Moscow); NIKOLAYEV, M.P. 'chlen-korrespondent Akademii meditsinskikh nauk SSSR, nauchnyy rukovoditel'.

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1. Kafedra farmakologii I Moskovskogo ordena Lenina meditsinskogo instituta.
2. Akademiya meditsinskikh nauk SSSR (for Nikolayev). (Sight) (Hypertension) (Kidneys--Diseases)

PAVLOVA, N.Ya.; MYAZDRIKOVA, A.A.; SAMOYLOVA, Z.T.; POLYAKOVA-KONDORSKAYA,
N.B.; MIRZOYAN, S.A.; MENTOVA, V.

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 2. In-
stitut terapii Akademii meditsinskikh nauk SSSR (for Samoylova).
 3. Ye-
revanskiy meditsinskiy institut (for Mirsoyan).
- (Pharmacology--Societies) (Physiology--Societies) (Biochemistry--
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PAVLOVA, N.Ya.

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1. Kafedra farmakologii (zav. prof. D.M.Rosesiyskiy [deceased]) I Moskovskogo ordena Lenina meditsinskogo instituta.

(VASOMOTOR DRUGS, effects,
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V.V.Zakusov) I Moskovskogo ordena Lenina meditsinskogo instituta
imeni I.M.Sechenova.
(HEART) (AUTONOMIC DRUGS)

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1. Of the Department of Pharmacology (Scientific Supervisor -- M. P. Nikolayev, Corresponding Member AMS USSR, deceased), First Moscow Order of Lenin Medical Institute.

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1. Laboratoriya klinicheskoy fiziologii (zav. - kand. med. nauk A. O. Navakatikyan) i otdel professional'nykh zabolevaniy (ispolnyayushchiy obyazannosti zaveduyushchego - kand. med. nauk V. O. Lyubomudrov) instituta fiziologii truda i kafedra fakul'tetskoy terapii II (zav. - dotsent N. S. Kamenetskiy) meditsinskogo instituta.

(BLOOD PRESSURE)